

CLAIMS

1. A safety container, comprising:
 - a container main body;
 - 5 an internal cap configured to be fit to an opening part of the container main body; and
 - an external cap configured to be fit to the internal cap rotatably and moveably in upper and lower directions;
 - 10 wherein the external cap is not rotated with the internal cap in a case where only the external cap is rotated in an opening direction;
 - wherein the external cap is rotated in a state where the external cap is pressed toward an internal cap side so that the external cap and the internal cap are
 - 15 engaged and the internal cap is opened and separated from the container main body;
 - wherein the safety container further comprises an inner ring having an end part where an engaging part engaged at a top part of the opening part of the container
 - 20 main body is provided and another end part where a slide contact part is provided; and
 - wherein the internal cap is rotated with the external cap while the internal cap slides and contacts
 - 25 the slide contact part, by rotating the external cap in the opening direction in a state where the external cap is pressed toward the internal cap side until a rotation angle reaches a designated angle.
- 30 2. The safety container as claimed in claim 1, wherein an elastic concave and convex structure is provided at the periphery projection and the slide contact part so as to slide and contact while the external

cap is rotated in the opening direction so that the periphery projection and the slide contact part receive a resistance force greater than a resistance force generated by rotating the external cap in the closing direction.

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3. A safety container, comprising:

a container main body;

a cap; and

an inner ring;

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wherein a thread is formed on a periphery wall external surface of an opening part of the container main body;

wherein the cap includes an internal cap and an external cap configured to be fit to the internal cap

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rotatably and moveably in upper and lower directions;

wherein a thread engaging with the thread of the container main body is formed on a periphery wall internal surface of the internal cap;

wherein the internal cap includes

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a periphery projection provided on an internal surface of a top wall so as to be formed downward;

an internal projection projecting upward from an external periphery part of the top wall; and

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an engaging plate fixed to a side surface of the internal projection, extending in a direction along a periphery wall, and having an end part where a projection part is formed;

wherein the projection part includes a tilt surface wherein a width is spread toward an external periphery side in a direction along an external periphery wall, and a stand surface provided in a center direction;

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wherein the external cap includes

an external projection provided on an external

periphery part of an internal surface of a top wall so as to be formed projecting downward;

an engaging projection projecting from a periphery wall internal surface; and

5 an elastic body provided on an internal surface of the top wall so as to be formed facing downward and exerting a force on the internal cap by being pressed;

wherein the inner ring includes an engaging part engaged at a top part of the opening part of the container
10 main body and an internal surface where a slide contact part is provided;

wherein the engaging projection comes in contact with the stand surface of the projection part so as to engage the engaging plate, and the internal cap is rotated
15 together with the external cap so that the opening part is closed by the top wall, by rotating the external cap in the closing direction;

wherein, in a case where only the external cap is rotated in an opening direction, the engaging
20 projection is slid by the tilt surface of the projection so that the engaging projection is not engaged with the engaging plate and the external cap is not rotated with the internal cap; and

wherein, by rotating the external cap in the
25 opening direction in a state where the external cap is pressed to a side of the internal cap, the elastic body is bent, the external projection is engaged with the inner projection, and the internal cap is rotated together with the external cap while the external surface of the
30 periphery projection slides and contacts the slide contact part, so that the opening part is opened from the top wall.

4. The safety container as claimed in claim 3,

wherein an elastic concave and convex structure is provided at the periphery projection and the slide contact part so as to slide and contact while the external cap is rotated in the opening direction so that the
5 periphery projection and the slide contact part receive a resistance force greater than a resistance force generated by rotating the external cap in the closing direction.

5. A safety container, comprising:
10 a container main body; and
a cap;

wherein a thread is formed on a periphery wall external surface of an opening part of the container main body;

15 wherein the cap includes an internal cap and an external cap configured to be fit to the internal cap rotatably and moveably in upper and lower directions;

wherein a thread engaging with the thread of the container main body is formed on a periphery wall internal
20 surface of the internal cap;

wherein the internal cap includes
an internal projection projecting upward from an external periphery part of the top wall;

an engaging plate fixed to a side surface of the
25 internal projection, extending in a direction along a periphery wall, and having an end part where a projection part is formed;

wherein the projection part includes a tilt surface wherein a width is spread toward an external
30 periphery side in a direction along an external periphery wall, and a stand surface provided in a center direction;

wherein the external cap includes
an external projection provided on an external

periphery part of an internal surface of a top wall so as to be formed projecting downward;

an engaging projection projecting from an internal surface of a periphery wall; and

5 an elastic body provided on an internal surface of the top wall so as to be formed facing downward and exerting a force on the internal cap by being pressed;

wherein the engaging projection comes in contact with the stand surface of the projection part so as to
10 engage the engaging plate, and the internal cap is rotated together with the external cap so that the opening part is closed by the top wall, by rotating the external cap in the closing direction;

wherein, in a case where only the external cap
15 is rotated in an opening direction, the engaging projection is slid by the tilt surface of the projection so that the engaging projection is not engaged with the engaging plate and the external cap is not rotated with the internal cap;

20 wherein by rotating the external cap in the opening direction in a state where the external cap is pressed to a side of the internal cap, the elastic body is bent, and the external projection is engaged with the inner projection,

25 wherein, until the rotation angle reaches a designated angle, the engaging projection is slid and contacted by the tilt surface while the engaging projection receives a designated resistance, and the internal cap is rotated together with the external cap, so
30 that the opening part is opened from the top wall, and

wherein a configuration of either the projection part or the engaging projection or configurations of both of the projection part and the engaging projection are

adjusted so that a size of the resistance is adjusted.

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